

California's Road to Recovery: Energy Stimulus Programs and Activities

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Presentation Topics

- Overview of the American Recovery and Reinvestment Act (ARRA) Energy Programs
- California State Government's Response
- Competitive Federal Solicitations and Direct Awards
- Programs the Energy Commission is Administering
- Workforce Opportunities in the Energy Sector
- ARRA Information Sources



Where it Began...February 19, 2009



ARRA Energy-Related Programs

- Total of \$42 billion
 - \$11.3 billion in formula-based funding
 - Efficiency
 - Renewables
 - Transportation
 - Green Community Plans
 - \$30.7 billion in technology–focused competitive and direct grant, loan and loan guarantee funds, tax incentives
 - Transportation
 - Transmission
 - Efficiency and Renewables
 - Clean Fossil Energy
 - Basic Research and ARPA-E
 - Environmental Clean-Up



ARRA Formula Energy Programs

Total of \$11.3 billion in formula-based funding

- \$3.1 billion State Energy Program (SEP)
 - Energy Commission will receive \$226 million
- \$3.2 billion Energy Efficiency and Conservation Block Grant Program
 - California local governments (large cities and counties) will receive a direct award of more than \$302 million
 - Small cities and counties will receive at least \$29 million through the Energy Commission
 - Energy Commission will receive \$49.6 million
- \$300 million for Energy Star Appliance Rebates
 - California expected to receive \$30-50 million
- \$5 billion for Low Income Home Weatherization
 - Department of Community Services and Development will receive about \$186 million



ARRA Energy Technology RDD&D Programs

- \$16.2 billion in competitive and direct awards for energy technology
 - \$4.2 billion for Transportation and Advanced Battery Manufacturing
 - Clean Cities
 - Transportation Electrification
 - Advanced Battery Manufacturing
 - \$4.5 billion for competitive Smart Grid projects
 - \$7.5 billion for other research
 - Energy Efficiency and Renewable Energy Research
 - Clean Fossil Energy
 - Science and ARPA-E



Energy Efficient Appliance Rebate Program and Energy Star Program

- Authorized in Energy Policy Act of 2005
- \$300 million available nationwide
 - Estimated \$30-50 million to California Energy Commission
- Funding available to states with existing programs
- Provides rebates to residential consumers for purchase of Energy Star products to replace used appliances of the same type
- Rebates shall be used to supplement, not supplant existing funds
- Limited information available from DOE at this time



California's State Government Response



Governor's Executive Order S-02-09 (March 27, 2009)

- Ensure California receives optimal benefit
- Establishes systematic method for collecting information for the uses, status, outcomes and accountability of funds.
- Ensures public accessibility, provide transparency, conduct auditing and accountability of funds
- Establish inter-agency agreements within state government to pursue legislation, or both, to ensure necessary resources.
- Visit: www.recovery.ca.gov



Energy Commission ARRA Programs



Energy Commission ARRA Programs

- State Energy Program
- Energy Efficiency & Conservation Block Grant Program



State Energy Program

- Energy Commission Application Approved June 25
 - Green Jobs Training Program (\$20 million)
 - Energy Efficiency Retrofits and Clean Energy Systems in the Residential, Non-residential and Industrial Sectors (\$196 million)
 - Program Implementation, Evaluation and Delivery (\$10 million)



State Energy Program Timeline

- Guideline development: June - August 2009
- Budget authority to expend funds: July 2009
- Anticipated first round of funding awards: Sept/Oct 2009
- All SEP funds must be encumbered by Sept 30, 2010 and fully drawn down by April 30, 2012



Proposed Energy Efficiency Conservation Block Grant Funding Programs

- Technical Consultant Services
- Energy Audits
- Financial Incentives
- Energy Efficiency Retrofits
- Energy Efficiency Conservation Programs for Buildings and Facilities
- Traffic Signals and Street Lighting
- Renewable Energy Technologies Combined with Energy Efficiency on Government Buildings



Energy Efficiency Conservation Block Grant Timeline

- Application submitted to DOE: June 25, 2009
- DOE approval expected: Aug-Sept 2009
- CEC guideline development: May–July 2009
- Budget authority to expend funds: July 2009
- Anticipated first round of funding awards: Sept 2009

Note that EECBG funds earmarked for small counties and cities must be encumbered 6 months after DOE plan approval (~Feb 2010) and fully drawn down 3 years after plan approval



Energy Commission Support for California Entities Pursuing Competitive Federal Opportunities

- Alternative and Renewable Fuel and Vehicle Technology Program – AB 118 Public Opportunity Notice (PON-08-010)
 - Transportation electrification (Round 1 & 2)
 - Battery and component manufacturing (Round 1 & 2)
 - Transit Investments for GHG and energy reduction
 - Clean Cities (Round 1 & 2)
 - Integrated bio-refinery operations



Energy Commission Support for California Entities Pursuing Competitive Federal Opportunities

- Public Interest Energy Research Program
Opportunity Notice (PON-08-011)
 - Enhanced geothermal systems research
 - Enhanced geothermal systems demonstration
 - Geothermal technologies program
 - High penetration solar deployment
 - Smart grid demonstrations



Green Workforce Development



Clean Energy Workforce Training Program Goals

- Support regional workforce development training programs that focus on professional and personal skills
 - Energy efficiency
 - Water efficiency
 - Renewable energy (distributed generation and utility scale)
 - Clean transportation



Funding Sources

- An Estimated \$47 million will be awarded to regional workforce development programs:
 - \$20 million from State Energy Program
 - \$15 million from Alternative and Renewable Fuel and Vehicle Technology Program (AB 118)
 - \$12 million from Public Interest Energy Research program for green partnership academies



Clean Energy Workforce Training Program

- Green building re-training and pre-apprenticeship training partnerships
- Clean energy re-training and pre-apprenticeship training partnerships
- Green building and clean energy career advancement training
- Alternative and renewable fuel and vehicle technologies workforce training



Target Populations

- **Green Building & Clean Energy**
 - Unemployed or under employed and incumbent workers, with a focus on construction workers
 - New workforce entrants
- **Alternative and Renewable Fuel and Vehicle Technologies Workforce**
 - Unemployed, under employed and displaced workers
 - Incumbent workers, with a focus on transportation fuel, vehicle and component manufacturing related workers



Partnerships

- Required partners:
 - Local workforce investment boards
 - Public/Private employers
 - Community colleges



For More Information:

Visit the Energy Commission's website at:

www.energy.ca.gov/recovery

and sign up for List Server to receive
timely announcements

California Economic Recovery Portal

www.recovery.ca.gov

Federal Energy Website:

www.energy.gov/recovery

